

## GERT ESH738 Exam

\_\_\_\_\_  
PRINT Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Badge or SS #

\_\_\_\_\_  
Date

**CIRCLE ONE BEST RESPONSE FOR EACH. ANSWER ALL QUESTIONS. 10 points each**

1. What is ionizing radiation?
  - A. Any material that gives off radiation
  - B. Radiation released by ions
  - C. Radiation which can remove an electron from an atom
  - D. Radiation in an undesirable location.
  
2. The average radiation dose the general public receives from both natural and man-made sources is \_\_\_\_\_ per year.
  - A. 150 mrem
  - B. 360 mrem
  - C. 500 mrem
  - D. 1000 mrem
  
3. A room is posted, “\_\_\_\_\_ controlled area”. It has no other radiological designation. The posted ENTRY REQUIREMENTS include: TLD REQUIRED. What is the minimum requirement for access?
  - A. A radiation dosimeter badge
  - B. GERT training and an escort
  - C. GERT training and a radiation dosimeter badge
  - D. GERT training, an escort, and a radiation dosimeter badge
  
4. The term ALARA stands for:
  - A. Always Leave Anything Radioactive Alone
  - B. As Long As Radiation’s Around
  - C. Anything Less and Remain Away
  - D. As Low As Reasonably Achievable
  
5. Workers who receive chronic occupational radiation exposure may increase their risk of:
  - A. hair loss
  - B. a future cancer
  - C. migraine headaches
  - D. color blindness
  
6. ANL-East workers who receive a measurable radiation exposure have an average annual occupational dose of about \_\_\_\_\_ mrem.
  - A. 100
  - B. 360
  - C. 500
  - D. 1000
  
7. Which of the following are indications that radiological hazards may be present?
  - A. Equipment in a storage area has yellow and magenta labels applied
  - B. An alarm sounds inside a radiologically controlled area
  - C. Flashing lights are visible on an x-ray generating device
  - D. All of the above

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8. If you increase your distance from a source of radiation, your radiation exposure will:
  - A. increase
  - B. decrease
  - C. stay the same
  - D. be reduced by half
  
9. Spilled radioactive material (liquid or powder) is an example of:
  - A. energy emitted from radioactive material
  - B. radioactive contamination
  - C. radioactive material
  - D. ionizing radiation
  
10. If a radiation alarm sounds in your work area, what should you do?
  - A. Silence the alarm and wait for Health Physics to respond
  - B. Contact Health Physics and ask what to do
  - C. Move away from the affected area and then report it
  - D. Ignore the alarm since it is probably a false alarm